RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/674,076_

Source: _1FWO_

Date Processed by STIC: _6/29/04_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS.
http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand-Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04): U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

ERROR DETECTED   **SUGGESTED CORRECTION**   SERIAL NUMBER: _/o/674,076_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics   The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
      Wrapped Aminos   was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will
                          prevent "wrapping."

2____Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

3____Misaligned Amino   The numbering under each 5ᵗʰ amino acid is misaligned. Do not use tab codes between numbers;
      Numbering   use space characters, instead.

4____Non-ASCII   The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please
                          ensure your subsequent submission is saved in ASCII text.

5____Variable Length   Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules,
                          each n or Xaa can only represent a single residue. Please present the maximum number of each
                          residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
      "bug"   sequences(s) _____. Normally, PatentIn would automatically generate this section from the
                          previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
                          the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for
                          Artificial or Unknown sequences.

7____Skipped Sequences   Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
      (OLD RULES)   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
                          (i) ==== SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
                          (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
                          This sequence is intentionally skipped

                          Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8____Skipped Sequences   Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
      (NEW RULES)   <210> sequence id number
                          <400> sequence id number
                          000

9____Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
      (NEW RULES)   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
                          In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10____Invalid <213>   Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
       Response   scientific name (Genus/species) <220>-<223> section is required when <213> response is Unknown or
                          is Artificial Sequence

11____Use of <220>   Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
                          Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or
                          "Unknown." Please explain source of genetic material in <220> to <223> section.
                          (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12____PatentIn 2.0   Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
       "bug"   resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
                          listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13____Misuse of n/Xaa   "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

AMC – Biotechnology Systems Branch – 09/09/2003

IFWO

RAW SEQUENCE LISTING   DATE: 06/29/2004
PATENT APPLICATION: **US/10/674,076**   TIME: 08:49:46

Input Set : **A:\N0260.70044US01seq.txt**
Output Set: **N:\CRF4\06292004\J674076.raw**

```
 3 <110> APPLICANT: Shashoua, Victor E
 5 <120> TITLE OF INVENTION: NEUROPROTECTIVE PEPTIDES AND USES THEREOF
 7 <130> FILE REFERENCE: N0260.70044US01
 9 <140> CURRENT APPLICATION NUMBER: US 10/674,076
10 <141> CURRENT FILING DATE: 2003-09-29
12 <150> PRIOR APPLICATION NUMBER: US 09/021,247
13 <151> PRIOR FILING DATE: 1998-02-10
15 <150> PRIOR APPLICATION NUMBER: US 09/810,863
16 <151> PRIOR FILING DATE: 2001-03-16
18 <160> NUMBER OF SEQ ID NOS: 19
20 <170> SOFTWARE: PatentIn version 3.2
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 12
24 <212> TYPE: PRT
25 <213> ORGANISM: Artificial sequence
27 <220> FEATURE:
29 <223> OTHER INFORMATION: Peptide
31 <220> FEATURE:
32 <221> NAME/KEY: MISC_FEATURE
33 <222> LOCATION: (1)..(1)
34 <223> OTHER INFORMATION: X = Asp, Gln, Gly or Tyr
36 <220> FEATURE:
37 <221> NAME/KEY: MISC_FEATURE
38 <222> LOCATION: (2)..(2)
39 <223> OTHER INFORMATION: X = any amino acid
41 <220> FEATURE:
42 <221> NAME/KEY: MISC_FEATURE
43 <222> LOCATION: (3)..(3)
44 <223> OTHER INFORMATION: X = Asp, Asn, Thr or Glu
46 <220> FEATURE:
47 <221> NAME/KEY: MISC_FEATURE
48 <222> LOCATION: (4)..(4)
49 <223> OTHER INFORMATION: X = any amino acid
51 <220> FEATURE:
52 <221> NAME/KEY: MISC_FEATURE
53 <222> LOCATION: (5)..(5)
54 <223> OTHER INFORMATION: X = Asp, Ser, Gly, Asn or Leu
56 <220> FEATURE:
57 <221> NAME/KEY: MISC_FEATURE
58 <222> LOCATION: (6)..(6)
59 <223> OTHER INFORMATION: X = any amino acid
61 <220> FEATURE:
62 <221> NAME/KEY: MISC_FEATURE
```

[handwritten annotations:] pp 1-6

insufficient explanation for Artificial Sequence (give source of genetic material. See item 11 on Error Summary Sheet.)

Does Not Comply Corrected Diskette Needed

```
 63 <222> LOCATION: (7)..(7)
 64 <223> OTHER INFORMATION: X = Ala, Asp, Phe, Lys, Thr, Tyr, Arg, Val, Cys or Ser
 66 <220> FEATURE:
 67 <221> NAME/KEY: MISC_FEATURE
 68 <222> LOCATION: (8)..(8)
 69 <223> OTHER INFORMATION: X = any amino acid
 71 <220> FEATURE:
 72 <221> NAME/KEY: MISC_FEATURE
 73 <222> LOCATION: (9)..(9)
 74 <223> OTHER INFORMATION: X = Asp, Glu, Gly, Ser, Thr, Met or Asn
 76 <220> FEATURE:
 77 <221> NAME/KEY: MISC_FEATURE
 78 <222> LOCATION: (10)..(10)
 79 <223> OTHER INFORMATION: X = any amino acid
 81 <220> FEATURE:
 82 <221> NAME/KEY: MISC_FEATURE
 83 <222> LOCATION: (11)..(11)
 84 <223> OTHER INFORMATION: X = Glu, Gln, Ala, Leu or Asn
 86 <220> FEATURE:
 87 <221> NAME/KEY: misc_feature
 88 <222> LOCATION: (12)..(12)
 89 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 91 <400> SEQUENCE: 1
 93 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 94 1               5                   10
 97 <210> SEQ ID NO: 2
 98 <211> LENGTH: 12
 99 <212> TYPE: PRT
100 <213> ORGANISM: Artificial sequence
102 <220> FEATURE:
104 <223> OTHER INFORMATION: Peptide
107 <220> FEATURE:
108 <221> NAME/KEY: MISC_FEATURE
109 <222> LOCATION: (2)..(2)
110 <223> OTHER INFORMATION: X = any amino acid
112 <220> FEATURE:
113 <221> NAME/KEY: MISC_FEATURE
114 <222> LOCATION: (4)..(4)
115 <223> OTHER INFORMATION: X = any amino acid
117 <220> FEATURE:
118 <221> NAME/KEY: MISC_FEATURE
119 <222> LOCATION: (7)..(7)
120 <223> OTHER INFORMATION: X = any amino acid
122 <220> FEATURE:
123 <221> NAME/KEY: MISC_FEATURE
124 <222> LOCATION: (10)..(10)
125 <223> OTHER INFORMATION: X = any amino acid
127 <220> FEATURE:
128 <221> NAME/KEY: MISC_FEATURE
```

W--> (handwritten annotation at line 93)

(handwritten annotations: "same error", ellipses circling "Artificial sequence" and "Peptide")

RAW SEQUENCE LISTING   DATE: 06/29/2004
PATENT APPLICATION: US/10/674,076   TIME: 08:49:46

Input Set : A:\N0260.70044US01seq.txt
Output Set: N:\CRF4\06292004\J674076.raw

```
      129 <222> LOCATION: (11)..(11)
      130 <223> OTHER INFORMATION: X = any amino acid
      132 <400> SEQUENCE: 2
W-->  134 Asp Xaa Asp Xaa Asp Gly Xaa Ile Asp Xaa Xaa Glu
      135 1               5                   10
      138 <210> SEQ ID NO: 3
      139 <211> LENGTH: 12
      140 <212> TYPE: PRT
      141 <213> ORGANISM: Artificial sequence          same
      143 <220> FEATURE:
      145 <223> OTHER INFORMATION: Peptide
      147 <400> SEQUENCE: 3
      149 Asp Gly Asp Gly Asp Phe Ala Ile Asp Ala Pro Glu
      150 1               5                   10
      153 <210> SEQ ID NO: 4
      154 <211> LENGTH: 14
      155 <212> TYPE: PRT
      156 <213> ORGANISM: Artificial sequence          same
      158 <220> FEATURE:
      160 <223> OTHER INFORMATION: Peptide
      162 <400> SEQUENCE: 4
      164 Lys Lys Asp Gly Asp Gly Asp Phe Ala Ile Asp Ala Pro Glu
      165 1               5                   10
      168 <210> SEQ ID NO: 5
      169 <211> LENGTH: 16
      170 <212> TYPE: PRT
      171 <213> ORGANISM: Artificial sequence          same
      173 <220> FEATURE:
      175 <223> OTHER INFORMATION: Peptide
      177 <400> SEQUENCE: 5
      179 Lys Lys Lys Lys Asp Gly Asp Gly Asp Phe Ala Ile Asp Ala Pro Glu
      180 1               5                   10                  15
      183 <210> SEQ ID NO: 6
      184 <211> LENGTH: 21
      185 <212> TYPE: DNA
      186 <213> ORGANISM: Artificial sequence
W-->  187 <220> FEATURE:
      189 <223> OTHER INFORMATION: Oligonucleotide
      191 <400> SEQUENCE: 6
      192 agttgagggg actttccagg c                              21
      195 <210> SEQ ID NO: 7
      196 <211> LENGTH: 20
      197 <212> TYPE: DNA
      198 <213> ORGANISM: Artificial sequence
      200 <220> FEATURE:
      202 <223> OTHER INFORMATION: Oligonucleotide
      204 <400> SEQUENCE: 7
      205 tgcagattgc gcaatctgca                                20
      208 <210> SEQ ID NO: 8
```

RAW SEQUENCE LISTING   DATE: 06/29/2004
PATENT APPLICATION: US/10/674,076   TIME: 08:49:46

Input Set : A:\N0260.70044US01seq.txt
Output Set: N:\CRF4\06292004\J674076.raw

```
209 <211> LENGTH: 21
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial sequence
213 <220> FEATURE:
215 <223> OTHER INFORMATION: Oligonucleotide
217 <400> SEQUENCE: 8
218 cgcttgatga gtcagccgga a                                    21
221 <210> SEQ ID NO: 9
222 <211> LENGTH: 20
223 <212> TYPE: PRT
224 <213> ORGANISM: Artificial sequence
226 <220> FEATURE:
228 <223> OTHER INFORMATION: Peptide
230 <400> SEQUENCE: 9
232 Lys Lys Lys Lys Asp Gly Asp Gly Asp Phe Ala Ile Asp Ala Pro Glu
233 1               5                   10                  15
235 Lys Lys Lys Lys
236             20
239 <210> SEQ ID NO: 10
240 <211> LENGTH: 8
241 <212> TYPE: PRT
242 <213> ORGANISM: Artificial sequence
244 <220> FEATURE:
246 <223> OTHER INFORMATION: Peptide
249 <400> SEQUENCE: 10
251 Asp Phe Ala Ile Asp Ala Pro Glu
252 1               5
255 <210> SEQ ID NO: 11
256 <211> LENGTH: 9
257 <212> TYPE: PRT
258 <213> ORGANISM: Artificial sequence
260 <220> FEATURE:
262 <223> OTHER INFORMATION: Peptide
264 <220> FEATURE:
265 <221> NAME/KEY: MISC_FEATURE
266 <222> LOCATION: (1)..(1)
267 <223> OTHER INFORMATION: X = any amino acid
269 <400> SEQUENCE: 11
W--> 271 Xaa Asp Phe Ala Ile Asp Ala Pro Glu
272 1               5
275 <210> SEQ ID NO: 12
276 <211> LENGTH: 9
277 <212> TYPE: PRT
278 <213> ORGANISM: Artificial sequence
280 <220> FEATURE:
282 <223> OTHER INFORMATION: Peptide
284 <400> SEQUENCE: 12
286 Gly Asp Phe Ala Ile Asp Ala Pro Glu
287 1               5
```

```
290 <210> SEQ ID NO: 13
291 <211> LENGTH: 10
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial sequence
295 <220> FEATURE:
297 <223> OTHER INFORMATION: Peptide
299 <220> FEATURE:
300 <221> NAME/KEY: MISC_FEATURE
301 <222> LOCATION: (1)..(1)
302 <223> OTHER INFORMATION: X = Asp, Asn, Thr or Glu
304 <220> FEATURE:
305 <221> NAME/KEY: MISC_FEATURE
306 <222> LOCATION: (2)..(2)
307 <223> OTHER INFORMATION: X = any amino acid
311 <400> SEQUENCE: 13
```

W--> 313 **Xaa Xaa Asp Phe Ala Ile Asp Ala Pro Glu**
```
314 1               5                   10
317 <210> SEQ ID NO: 14
318 <211> LENGTH: 10
319 <212> TYPE: PRT
320 <213> ORGANISM: Artificial sequence
322 <220> FEATURE:
324 <223> OTHER INFORMATION: Peptide
326 <220> FEATURE:
327 <221> NAME/KEY: MISC_FEATURE
328 <222> LOCATION: (2)..(2)
329 <223> OTHER INFORMATION: X = any amino acid
331 <400> SEQUENCE: 14
```

W--> 333 **Asp Xaa Asp Phe Ala Ile Asp Ala Pro Glu**
```
334 1               5                   10
337 <210> SEQ ID NO: 15
338 <211> LENGTH: 11
339 <212> TYPE: PRT
340 <213> ORGANISM: Artificial sequence
342 <220> FEATURE:
344 <223> OTHER INFORMATION: Peptide
346 <220> FEATURE:
347 <221> NAME/KEY: MISC_FEATURE
348 <222> LOCATION: (1)..(1)
349 <223> OTHER INFORMATION: X = any amino acid
351 <220> FEATURE:
352 <221> NAME/KEY: MISC_FEATURE
353 <222> LOCATION: (2)..(2)
354 <223> OTHER INFORMATION: X = Asp, Asn, Thr or Glu
356 <220> FEATURE:
357 <221> NAME/KEY: MISC_FEATURE
358 <222> LOCATION: (3)..(3)
359 <223> OTHER INFORMATION: X = any amino acid
361 <400> SEQUENCE: 15
```

IMPORTANT

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 06/29/2004
PATENT APPLICATION: US/10/674,076   TIME: 08:49:47

          Input Set : A:\N0260.70044US01seq.txt
          Output Set: N:\CRF4\06292004\J674076.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12
Seq#:2; Xaa Pos. 2,4,7,10,11
Seq#:11; Xaa Pos. 1
Seq#:13; Xaa Pos. 1,2
Seq#:14; Xaa Pos. 2
Seq#:15; Xaa Pos. 1,2,3
Seq#:16; Xaa Pos. 2,3
Seq#:17; Xaa Pos. 1,2,3,4
Seq#:18; Xaa Pos. 2,3,4
Seq#:19; Xaa Pos. 1,2,3,4,5,6,7,8

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/674,076**

DATE: 06/29/2004
TIME: 08:49:47

Input Set : **A:\N0260.70044US01seq.txt**
Output Set: **N:\CRF4\06292004\J674076.raw**

```
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:187 M:283 W: Missing Blank Line separator, <220> field identifier
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
```